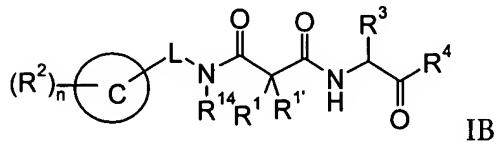
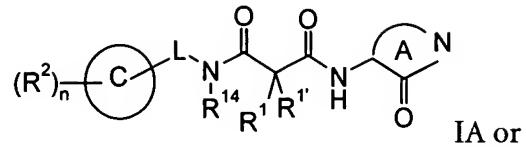


## Claims

1. A compound of formula



wherein

L is a bond,  $-(CH_2)_m-$ ,  $-CH(CH_3)-$ , or is

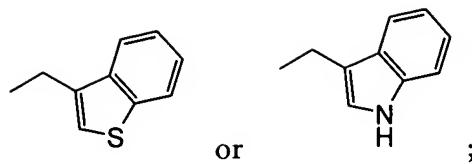
(c) is a cyclic ring, selected from the group consisting of phenyl, pyridinyl, furanyl, benzo[b]thiophenyl, tetrahydronaphthyl, indanyl, 2,2-dimethyl-[1,3]dioxolanyl and tetrahydrofuranyl;

$R^1$  and  $R^{1'}$  are the same or different and are hydrogen, lower alkyl, halogen, benzyl or lower alkenyl;

each  $R^2$  is independently selected from the group consisting of hydrogen, hydroxy, halogen, lower alkyl, lower alkoxy and trifluoromethyl;

$R^3$  - is phenyl or benzyl, each of which is unsubstituted or substituted by one or two substituents selected from the group consisting of halogen and cyano, or is

- lower alkyl,
- two hydrogen atoms,
- $-(CH_2)_m-S$ -lower alkyl,
- $-(CH_2)_m$ -cycloalkyl,
- $-(CH_2)_m-OH$ ,
- $-CH_2OCH_2$ -phenyl,

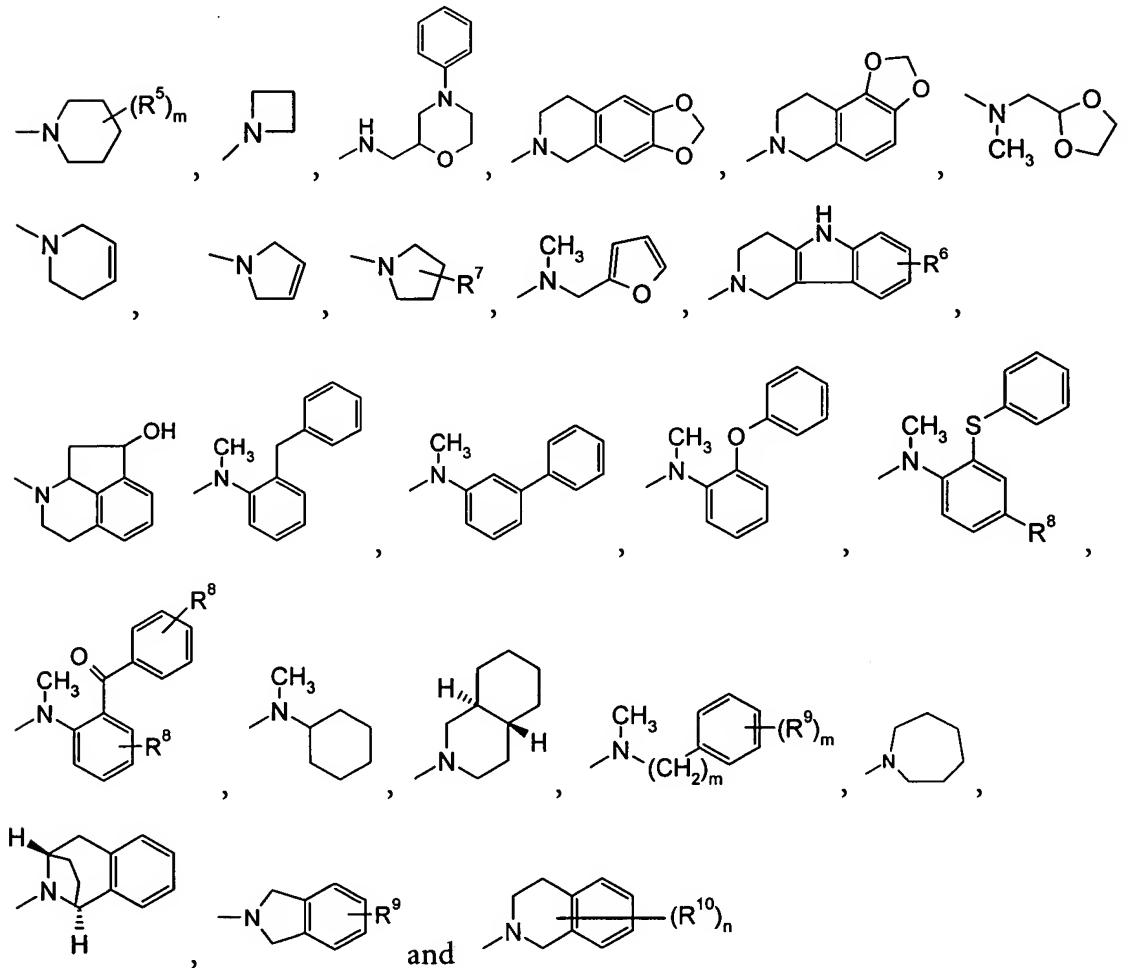


$R^4$  is lower alkoxy,

- mono- or dialkyl amino,
- $N(CH_3)(CH_2)_m-C\equiv CH$ ,

or is a mono-, di or tricyclic group, unsubstituted or substituted by  $R^5$  to  $R^{10}$ , and which groups can be linked by  $-N(CH_3)(CH_2)_o$ , to the  $-C(O)-$  group in

formula IB, selected from the group consisting of



wherein

each  $R^5$  is independently selected from the group consisting of hydrogen, halogen, lower alkyl and  $-(CH_2)_mOH$ ;

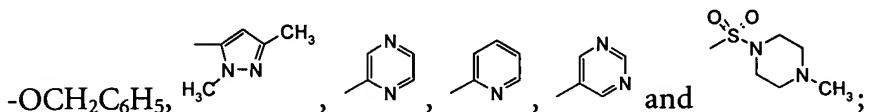
$R^6$  is hydrogen, halogen or lower alkoxy;

$R^7$  is hydrogen or  $-CH_2OCH_3$ ;

R<sup>8</sup> is hydrogen or halogen;

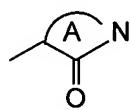
$R^9$  is hydrogen, lower alkoxy, lower alkyl or amino;

each R<sup>10</sup> is independently selected from the group consisting of hydrogen, lower alkyl, lower alkoxy, lower cycloalkyl, halogen, hydroxy, =O, amino, nitro, -CH<sub>2</sub>CN,

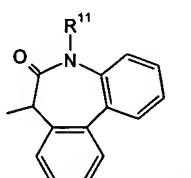


$m$  is 1 or 2;

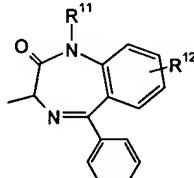
n is 1, 2 or 3;



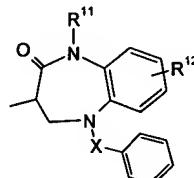
is selected from the group consisting of



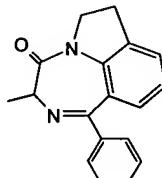
a),



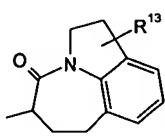
b)



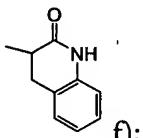
c)



d)



e) and

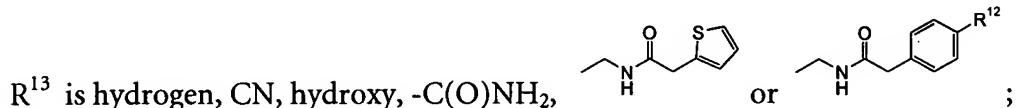


wherein

X is  $-\text{CH}_2$ ,  $-\text{S}(\text{O})_2$  or  $-\text{C}(\text{O})-$ ;

R<sup>11</sup> is hydrogen or lower alkyl;

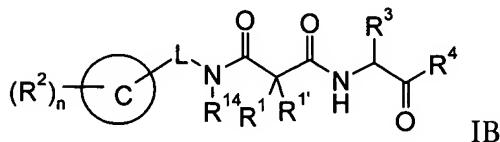
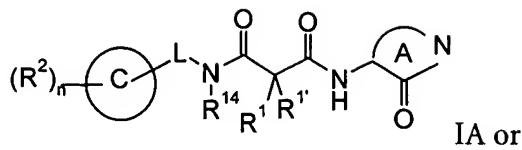
R<sup>12</sup> is hydrogen or halogen;



R<sup>14</sup> is hydrogen, lower alkyl, -(CH<sub>2</sub>)<sub>2</sub>OH or -(CH<sub>2</sub>)<sub>2</sub>CN;

or a pharmaceutically acceptable acid addition salt thereof.

2. A compound of formula



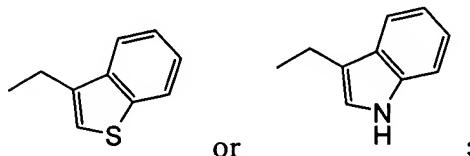
wherein

$\text{R}^1$  and  $\text{R}^{1'}$  are the same or different and are hydrogen, lower alkyl, halogen, benzyl or lower alkenyl;

each  $\text{R}^2$  is independently selected from the group consisting of hydrogen, halogen, lower alkyl, lower alkoxy and trifluoromethyl;

$\text{R}^3$  is phenyl or benzyl, each of which is unsubstituted or substituted by one or two substituents selected from the group consisting of halogen and cyano, or is

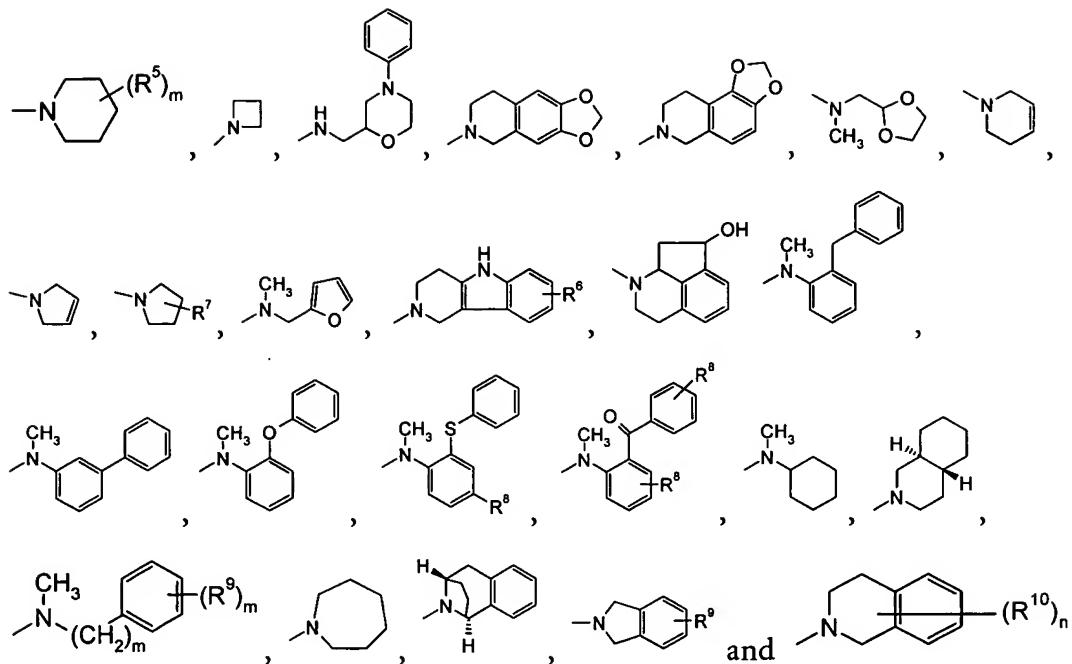
- lower alkyl,
- two hydrogen atoms,
- $(\text{CH}_2)_m\text{-S-lower alkyl}$ ,
- $(\text{CH}_2)_m\text{-cycloalkyl}$ ,
- $(\text{CH}_2)_m\text{-OH}$ ,
- $\text{CH}_2\text{OCH}_2\text{-phenyl}$ ,



$\text{R}^4$  is lower alkoxy,

- mono- or dialkyl amino,
- $\text{N}(\text{CH}_3)(\text{CH}_2)_m\text{-C}\equiv\text{CH}$ ,

or is a mono-, di or tricyclic group, unsubstituted or substituted by  $\text{R}^5$  to  $\text{R}^{10}$ , and which groups can be linked by  $-\text{N}(\text{CH}_3)(\text{CH}_2)_o$ , to the  $-\text{C}(\text{O})-$ group in formula IB, selected from the group consisting of



wherein

each R<sup>5</sup> is independently selected from the group consisting of hydrogen, halogen, lower alkyl and -(CH<sub>2</sub>)<sub>m</sub>OH;

$R^6$  is hydrogen, halogen or lower alkoxy;

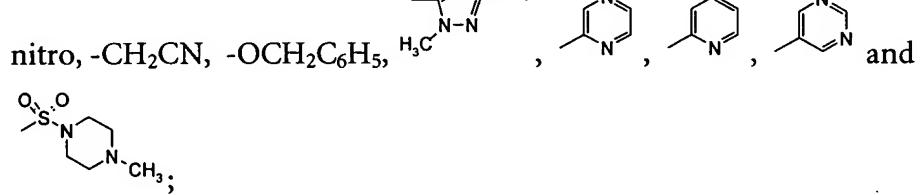
R<sup>7</sup> is hydrogen or -CH<sub>2</sub>OCH<sub>3</sub>;

R<sup>8</sup> is hydrogen or halogen;

R<sup>9</sup> is hydrogen, lower alkox

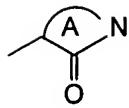
each  $R^{10}$  is independently selected from the group c

lower alkyl, lower alkoxy, lower cycloalkyl, halogen, hydroxy, =O

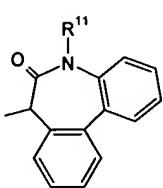


m is 1 or 2;

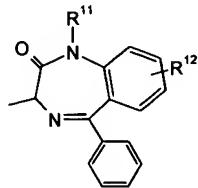
n is 1, 2 or 3;



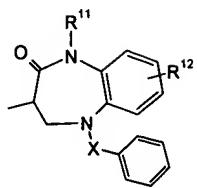
is selected from the group consisting of



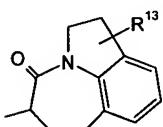
a),



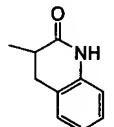
b),



d)



e) and



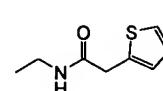
f),;

wherein

X is  $-\text{CH}_2$ ,  $-\text{S}(\text{O})_2$  or  $-\text{C}(\text{O})-$ ;

R<sup>11</sup> is hydrogen or lower alkyl;

R<sup>12</sup> is hydrogen or halogen;



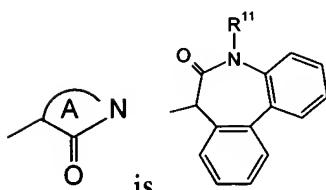
or

$R^{13}$  is hydrogen, CN, hydroxy,  $-C(O)NH_2$ ,

or a pharmaceutically acceptable acid addition salt thereof.

3. A compound of formula IA in accordance with claim 1.

4. A compound of formula IA in accordance with claim 3, wherein



5. A compound of formula IA in accordance with claim 4 wherein <sup>c</sup> is phenyl.

6. A coompond in accordance with claim 5 selected from the group consisting of

N-(3,5-difluoro-benzyl)-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(3,5-difluoro-benzyl)-2-fluoro-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(3,5-difluoro-benzyl)-2-isopropyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(3,5-difluoro-benzyl)-2-ethyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(3,5-difluoro-benzyl)-2-fluoro-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(3,5-difluoro-benzyl)-2,2-dimethyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(3,5-difluoro-benzyl)-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-2-propyl-malonamide,

N-benzyl-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(4-fluoro-benzyl)-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(4-chloro-benzyl)-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(3-fluoro-benzyl)-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(2,5-difluoro-benzyl)-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

2-methyl-N-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-N'-(2,3,5-trifluoro-benzyl)-malonamide,

N-(2-fluoro-benzyl)-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-(2-chloro-benzyl)-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide and

N-(3-chloro-benzyl)-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide.

7. A compound of formula IA in accordance with claim 4, wherein <sup>c</sup> is a cyclic ring selected from the group consisting of furanyl, benzo[b]thiophenyl and indanyl.

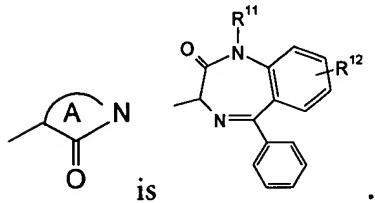
8. A compound in accordance with claim 7, selected from the group consisting of

N-furan-2-ylmethyl-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide,

N-benzo[b]thiophen-3-ylmethyl-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide and

N-(4,6-difluoro-indan-1-yl)-2-methyl-N'-(5-methyl-6-oxo-6,7-dihydro-5H-dibenzo[b,d]azepin-7-yl)-malonamide.

9. A compound of formula IA in accordance with claim 3 wherein



10. A compound in accordance with claim 9, selected from the group consisting of

(N-(3,5-difluoro-benzyl)-2-methyl-N'-(1-methyl-2-oxo-5-phenyl-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)-malonamide,

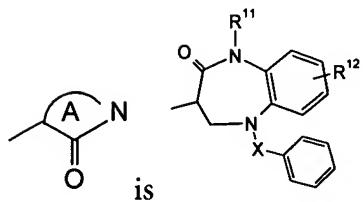
N-(3,5-difluoro-benzyl)-2-fluoro-2-methyl-N'-(1-methyl-2-oxo-5-phenyl-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)-malonamide,

N-(3,5-difluoro-benzyl)-N'-(1-methyl-2-oxo-5-phenyl-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)-2-propyl-malonamide,

N-(3,5-difluoro-benzyl)-2-ethyl-N'-(1-methyl-2-oxo-5-phenyl-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)-malonamide and

N-(4-chloro-benzyl)-2-methyl-N'-(1-methyl-2-oxo-5-phenyl-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)-malonamide.

11. A compound of formula IA in accordance with claim3, wherein

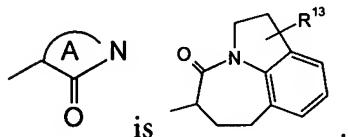


12. A compound in accordance with claim 11, selected from the group consisting of

N-(5-benzyl-1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-benzo[b][1,4]diazepin-3-yl)-N'-(3,5-difluoro-benzyl)-2-methyl-malonamide,

N-(5-benzenesulfonyl-1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-benzo[b][1,4]diazepin-3-yl)-N'-(3,5-difluoro-benzyl)-2-methyl-malonamide and  
N-(5-benzoyl-1-methyl-2-oxo-2,3,4,5-tetrahydro-1H-benzo[b][1,4]diazepin-3-yl)-N'-(3,5-difluoro-benzyl)-2-methyl-malonamide.

13. A compound of formula IA in accordance with claim3, wherein



14. A compound in accordance with claim 13, selected from the group consisting of

(2S-cis)-N-(3,5-difluoro-benzyl)-2-methyl-N'-(4-oxo-2-[(2-thiophen-2-yl-acetylamino)-(2R,S)-methyl]-1,2,4,5,6,7-hexahydro-azepino[3,2,1-hi]indol-5-yl)-malonamide and  
(2S-cis)-N-(3,5-difluoro-benzyl)-N'-(2-[(2-(4-fluoro-phenyl)-acetylamino]-methyl)-4-oxo-1,2,4,5,6,7-hexahydro-azepino[3,2,1-hi]indol-5-yl)-2,2-dimethyl-malonamide.

15. A compound of formula IB in accordance with claim 1.

16. A compound of formula IB in accordance with claim 2.

17. A compound in accordance with claim 1 , wherein at least one R<sup>2</sup> is fluoro.

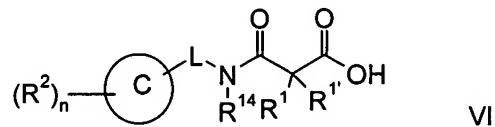
18. A composition comprising a compound of claim 1 and a pharmaceutically acceptable carrier.

19. A composition comprising a compound of claim 2 and a pharmaceutically acceptable carrier.

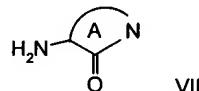
20. A method of treating Alzheimer's disease comprising administering to an individual an effective amount of a compound of claim 1.

21. A method of treating Alzheimer's disease comprising administering to an individual an effective amount of a compound of claim 2.

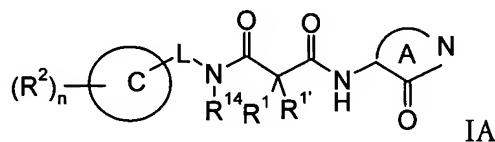
22. A process for preparing a compound of formula IA as defined in claim 1 which process comprises reacting a compound of formula



with a compound of formula

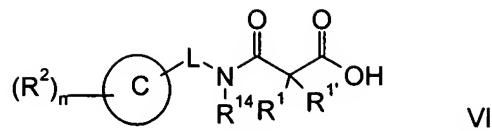


to produce a compound of formula

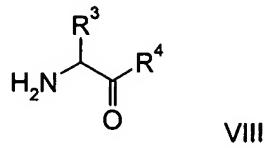


wherein the substituents are defined in claim 1.

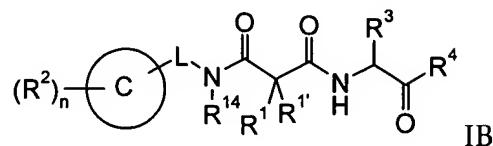
23. A process for preparing a compound of formula IB as defined in claim 1 which process comprises reacting a compound of formula



with a compound of formula

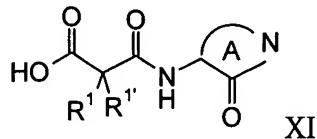


to produce a compound of formula

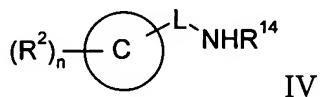


wherein the substituents are defined in claim 1.

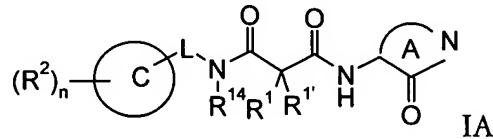
24. A process for preparing a compound of formula IA as defined in claim 1 which process comprises  
reacting a compound of formula



with a compound of formula



to produce a compound of formula



wherein the substituents are defined in claim 1.